Publishers provide information from the system

System user | External system | External program | Hardware device

Information

Intelligent Consequence Management System

Publisher

UUID = "098a542db374d5f577206ebf541c24bc"
publisher type = "external program"
IP address = "205.217.1.213"
enclave = "FBI"
write access level = "5"
can create event = "true"
can create topic = "true"
can create messages = "true"
<user defined attributes>

FIG 1.

Subscribers receive information from the system

System user   External system   External program   Hardware device

Information

Intelligent Consequence Management System

Subscriber

UUID = "098a542db374d5f577206ebf541c24bc"
name = "Joe User"
email address = "juser@somedomain.gov"
read access level = "5"
can create topic = "true"
can create topic subscription = "true"
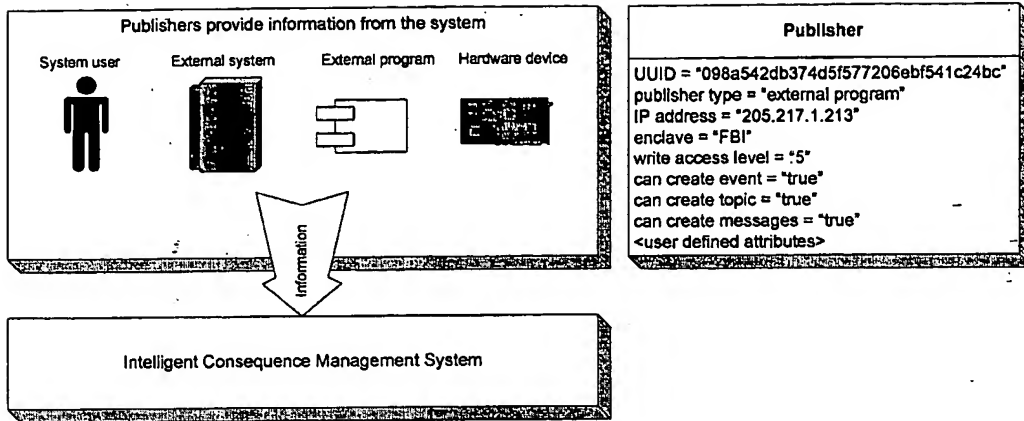<user defined attributes>

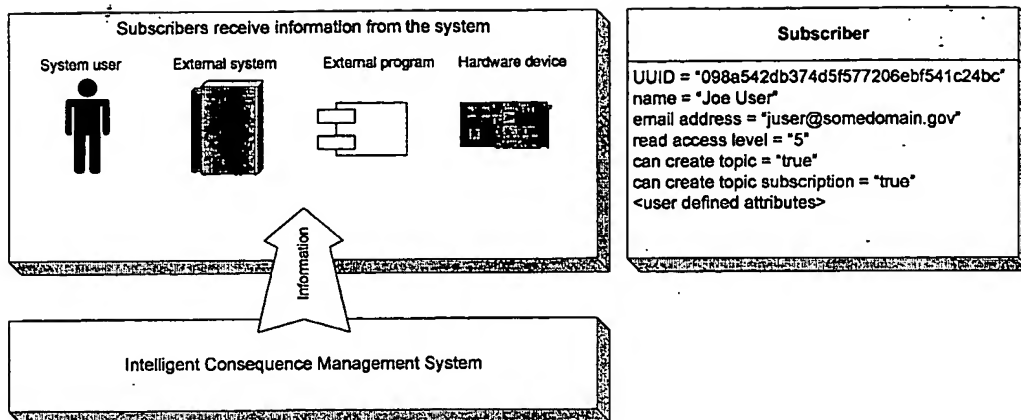# FIG 2.

Message
Message data (files)

System attributes
Message ID = "a6e2906c4cdd49ef5f5f3faf03153b50" Event ID = "098a542db374d5f577206ebf541c24bc" Topic ID = "e24f7aa8fe550efe15be9884acf073fa" Topic ID = "13620fb77b90b613cc40341e8c4ee5d9" Topic ID = "20db6ff00830911cb062863a5c830ea3" Subject = "Nimitz Attacked!" Message Date Time = "5/22/2003 1:45:15 PST" Time to live = "24 hours"

User attributes
is high priority = "true" is warning = "false"

FIG. 3

```
            ┌─────────────────────────┐
            │     Define Publishers   │  ～ 12
            └─────────────────────────┘
                        │
                        ▼
            ┌─────────────────────────┐
            │    Define Subscribers   │  ～ 14
            └─────────────────────────┘
                        │
                        ▼
            ┌─────────────────────────┐
            │ Publish Informational   │  ～ 16
            │       Message           │
            └─────────────────────────┘
                        │
                        ▼
            ┌─────────────────────────┐
            │ Establish Content Filters│ ～ 18
            └─────────────────────────┘
                        │
                        ▼
            ┌─────────────────────────┐
            │ Screen Informational    │  ～ 20
            │       Message           │
            └─────────────────────────┘
                        │
                        ▼
            ┌─────────────────────────┐
            │   Provide Description of │  ～ 22
            │ Informational Message to│
            │      Target Node        │
            └─────────────────────────┘
                        │
                        ▼
            ┌─────────────────────────┐
            │    Review Description of│  ～ 24
            │  Informational Message  │
            └─────────────────────────┘
                        │
                        ▼
            ┌─────────────────────────┐
            │  Notify Originating Node│  ～ 26
            └─────────────────────────┘
                        │
                        ▼
            ┌─────────────────────────┐
            │ Transfer Informational  │  ～ 28
            │   Message to Target Node│
            └─────────────────────────┘
                        │
                        ▼
            ┌─────────────────────────┐
            │ Establish Content-Based │  ～ 30
            │ Communication Triggers  │
            └─────────────────────────┘
                        │
                        ▼
            ┌─────────────────────────┐
            │ Screen Information Message│ ～ 32
            │    Against Triggers     │
            └─────────────────────────┘
                        │
                        ▼
            ┌─────────────────────────┐
            │ Publish Additional      │  ～ 34
            │ Informational Message   │
            └─────────────────────────┘
```
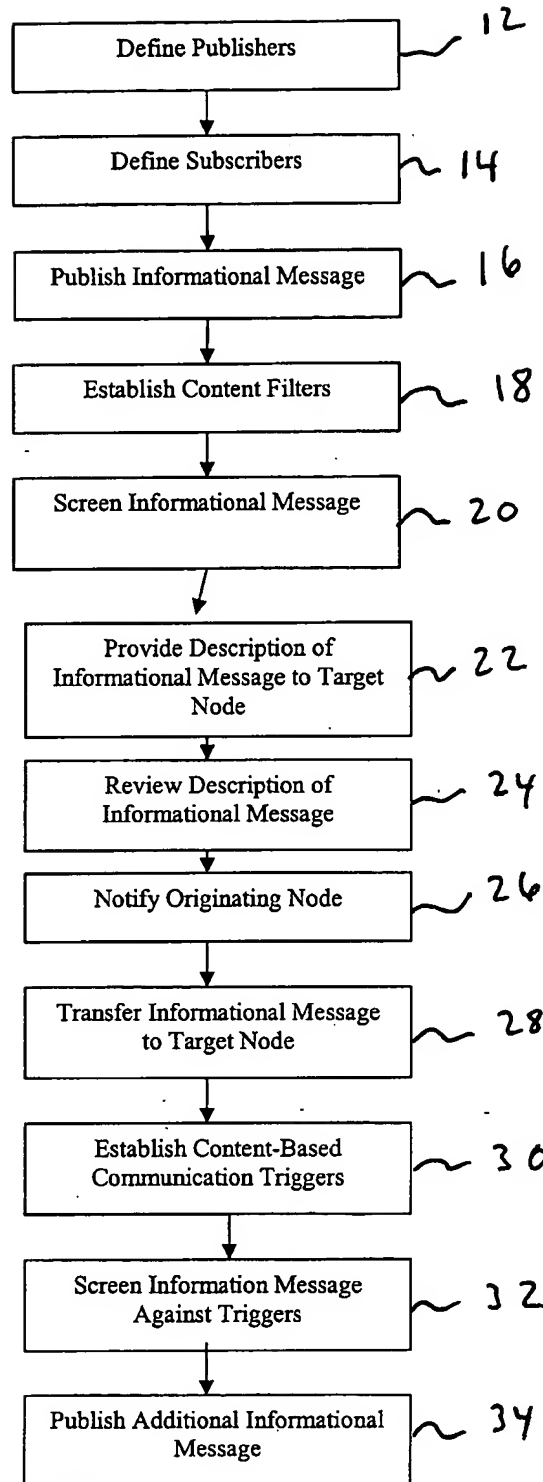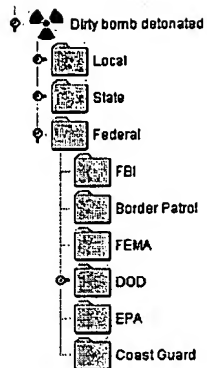
FIG. 4

☢ Event Type	Event
UUID = "a6e2906c4cdd49ef5f5f3faf03153b50" description = "dirty bomb" severity = "high" is radioactive = "true"	UUID = "098a542db374d5f577206ebf541c24bc" location latitude = "32 42.414 N" location longitude = "117 09.104 W" city = "San Diego" state = "CA" country = "USA" event date = "05/22/2004" event time = "01:22:30 PST"

FIG. 5

Dirty bomb detonated
- Local
- State
- Federal
  - FBI
  - Border Patrol
  - FEMA
  - DOD
  - EPA
  - Coast Guard

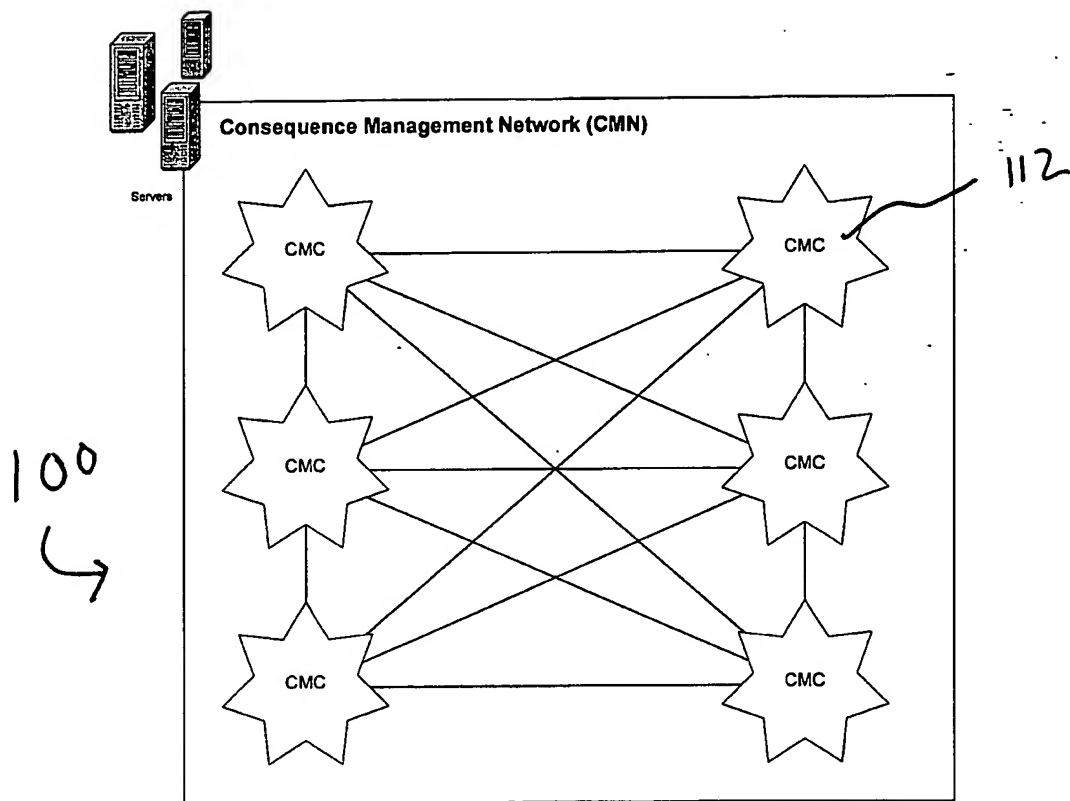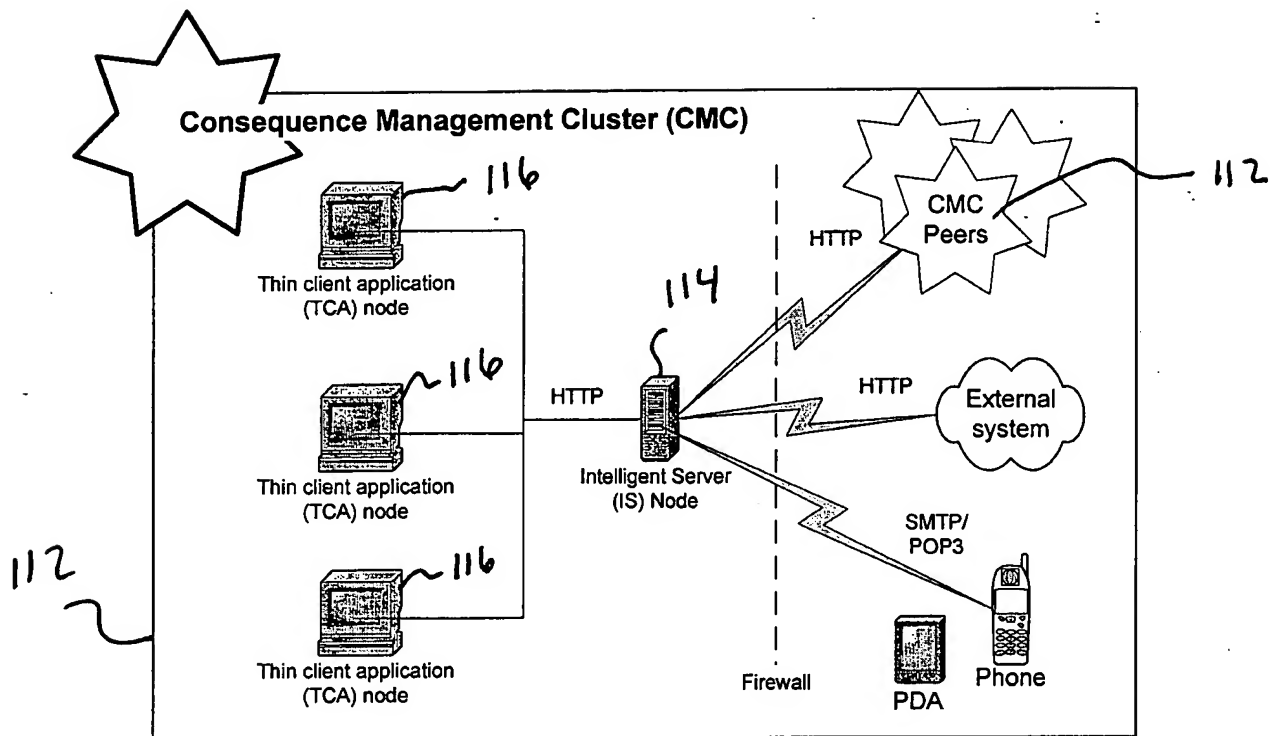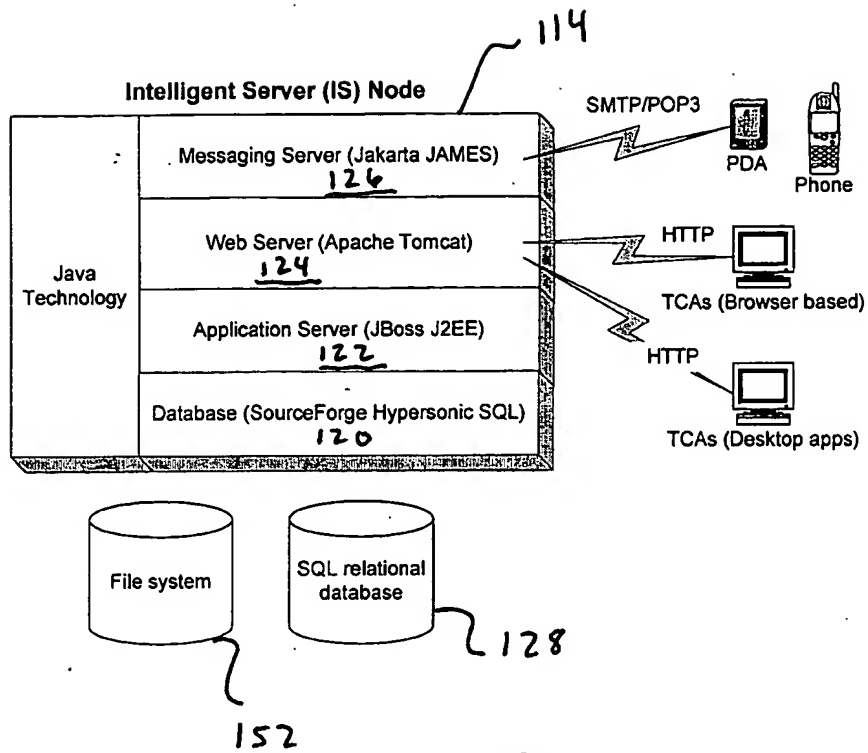| Topic |
| --- |
| UUID = "098a542db374d5f577206ebf541c24bc"
name = "FEMA"
description = "Federal Emergency Management Agency"
ParentUUID = "e4b9afa767439965bbee1f7f166b5f2a"
can change = "true"
can delete = "true"
is government agency = "true"
<user defined attributes> |

FIG. 6

Consequence Management Network (CMN)

Servers

112

CMC   CMC

100

CMC   CMC

CMC   CMC

FIG 7.

Consequence Management Cluster (CMC)

116

Thin client application
(TCA) node

116

Thin client application
(TCA) node

116

Thin client application
(TCA) node

112

HTTP

114

Intelligent Server
(IS) Node

HTTP

CMC
Peers

112

HTTP

External
system

SMTP/
POP3

Firewall

PDA

Phone

FIG 8.

Intelligent Server (IS) Node ~ 114

Java Technology	Messaging Server (Jakarta JAMES) 126
	Web Server (Apache Tomcat) 124
	Application Server (JBoss J2EE) 122
	Database (SourceForge Hypersonic SQL) 120

SMTP/POP3 → PDA, Phone

HTTP → TCAs (Browser based)

HTTP → TCAs (Desktop apps)

File system 152

SQL relational database 128

FIG. 9

Database Schema Segments		
Security	**CM Information**	**Configuration**
Publisher information *130*	Event types and event information *136*	Content-based filter configuration ~*144*
Subscriber information *132*	Topic information *138*	Content-based communication trigger configuration ~*146*
PKI key store *134*	Message index *140*	Network configuration ~*148*
	User data repository index *142*	E-forms configuration ~*150*

FIG. 10

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